

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) EP 0 961 225 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
14.06.2000 Bulletin 2000/24

(51) Int. Cl.⁷: G06T 7/00

(43) Date of publication A2:
01.12.1999 Bulletin 1999/48

(21) Application number: 99201509.9

(22) Date of filing: 14.05.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(72) Inventors:
• Schildkraut, Jay S.
Rochester, New York 14650-2201 (US)
• Gray, Robert T.
Rochester, New York 14650-2201 (US)

(30) Priority: 26.05.1998 US 84774

(71) Applicant: EASTMAN KODAK COMPANY
Rochester, New York 14650 (US)

(74) Representative:
Lewandowsky, Klaus, Dipl.-Ing.
Kodak Aktiengesellschaft,
Patentabteilung
70323 Stuttgart (DE)

(54) A computer program product for redeye detection

(57) A computer program product for detecting eye color defects of a subject in an image due to flash illumination comprises : a computer readable storage medium having a computer program stored thereon for performing the steps of detecting skin colored regions in a digital image; searching the skin colored regions for groups of pixels with color characteristic of redeye defect; and correcting color of the pixels based on a location of redeye defect found in step (b).

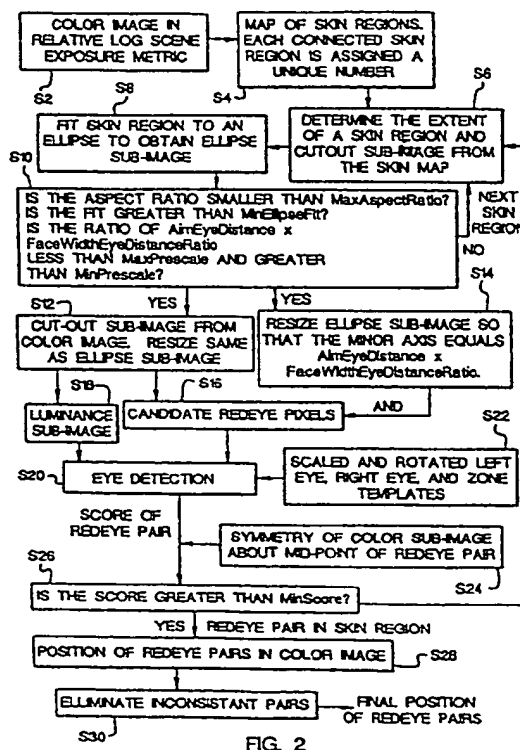


FIG. 2

EP 0 961 225 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 20 1509

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Y	EP 0 635 972 A (EASTMAN KODAK COMPANY) 25 January 1995 (1995-01-25) * the whole document *	1	G06T7/00 H04N1/60 G06T7/40
Y	SABER E ET AL: "Face detection and facial feature extraction using color, shape and symmetry-based cost functions" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON PATTERN RECOGNITION, 25 August 1996 (1996-08-25), XP002097369 * page 655, paragraph 2 - page 657, paragraph 3 *	1	
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02, 30 January 1998 (1998-01-30) & JP 09 261580 A (KONICA CORP), 3 October 1997 (1997-10-03) * abstract *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H04N G06T
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 Apr11 2000	Examiner Chateau, J-P
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P4/C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 20 1509

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-04-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 635972 A	25-01-1995	US 5432863 A	11-07-1995
		DE 69415886 D	25-02-1999
		DE 69415886 T	29-07-1999
		JP 7072537 A	17-03-1995
		US 5748764 A	05-05-1998
JP 09261580 A	03-10-1997	NONE	

EPO FORM P449

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

